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L5	143	((((administer\$3 administrat\$3 manag\$4 monitor\$3) same (distribut\$3 near5 (application program software)))) and 709/220.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:50
L6	60	((((administer\$3 administrat\$3 manag\$4 monitor\$3) same (distribut\$3 near5 (application program software)))) and 719/318.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:50
L7	51	((((administer\$3 administrat\$3 manag\$4 monitor\$3) same (distribut\$3 near5 (application program software)))) and 718/101.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:50
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L10	0	12 and 709/208.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:52
L11	0	12 and 719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:52
L12	0	12 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/10/10 15:52

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81 Workshop on compositional software architectures: workshop reportMay 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available:  pdf(2.91 MB) Additional Information: [full citation](#), [index terms](#)

82 An approach to large-scale collection of application usage data over the Internet

David M. Hilbert, David F. Redmiles

April 1998 **Proceedings of the 20th international conference on Software engineering**



Full text available:  pdf (1.31 MB)  Publisher Site

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

83 Exploiting an event-based infrastructure to develop complex distributed systems

G. Cugola, E. Di Nitto, A. Fuggetta

April 1998 **Proceedings of the 20th international conference on Software engineering**

Full text available:  pdf (1.19 MB)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
 Publisher Site

84 Frameworks for component-based client/server computing

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Full text available: pdf(243.81 KB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

85 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Coll**

Full text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time execution of the application. The visualization tool we use is Poet, an event tracer developed at the Univ. and do not provide the user with the desired overview of the application. In our experience, such tools d

86 A design framework for Internet-scale event observation and notification

David S. Rosenblum, Alexander L. Wolf

November 1997

**ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European c
international symposium on Foundations of software engineering**, Volume 22 Issue

Full text available:  pdf(1.58 MB)

Additional Information: [full citation](#), [references](#), [citations](#), i

Keywords: Internet, design, distributed systems, events, software engineering

87 Mobile objects in distributed Oz

Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Scheidhauer

September 1997

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 19

Full text available:  pdf(484.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Some of the most difficult questions to answer when designing a distributed application are related to m
how to transfer it. Network-transparent distribution, the property that a program's behavior is independe
these questions. Therefore we propose to extend all language entities with a network behavior that enab

Keywords: latency tolerance, mobile objects, network transparency

88 The impact of object technology on commercial transaction processing

Edward E. Cobb

August 1997

The VLDB Journal — The International Journal on Very Large Data Bases, Volume 6

Full text available:  pdf(649.17 KB)

Additional Information: [full citation](#), [abstract](#), [index term](#):

Businesses today are searching for information solutions that enable them to compete in the global mar
investments, permit the best technology to be applied to the problem, and be manageable. Object techn
application development, delivers these characteristics but, to date, its deployment in commercial busine

Keywords: Objects, Workflow, transaction processing

89 Assessing process-centered software engineering environments

Vincenzo Ambriola, Reidar Conradi, Alfonso Fuggetta

July 1997

ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 6

Full text available:  pdf(342.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Process-centered software engineering environments (PSEEs) are the most recent generation of environ
representation of the process (called the process model that specifies how to carry out software develop
to use and control software development tools. A process model is therefore a vehicle to better understa

Keywords: CASE, enabling technology, process modeling languages, process-centered software engineer

90 A case study of verification, validation, and accreditation for advanced distributed simulation

Ernest H. Page, Bradford S. Canova, John A. Tufarolo

July 1997

ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 7 Issu

Full text available:  pdf(501.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The techniques and methodologies for verification and validation of software-based systems have argual
Advanced Distributed Simulation (ADS), a major initiative within the defense modeling and simulation cc
approaches. A case study of the development process and concomitant verification and validation activiti


Keywords: IDEF modeling, advanced distributed simulation, aggregate level simulation protocol, life cy

91 Verification techniques for cache coherence protocols

Fong Pong, Michel Dubois

March 1997

ACM Computing Surveys (CSUR), Volume 29 Issue 1

Full text available:  [pdf\(1.25 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this article we present a comprehensive survey of various approaches for the verification of cache coherence checking, and symbolic state models. Since these techniques search the state space of the protocol execution information and the verification time grow very fast with the number of processors and the complexity of

Keywords: cache coherence, finite state machine, protocol verification, shared-memory multiprocessors

92 Xunet 2: lessons from an early wide-area ATM testbed

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C. Restrict

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Full text available:  [pdf\(231.69 KB\)](#)


Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable bit rate

93 Report from the NSF workshop on workflow and process automation in information systems

Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Wileden

January 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 1

Full text available:  [pdf\(1.24 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

An interdisciplinary research community needs to address challenging issues raised by applying workflow results from the NSF workshop on Workflow and Process Automation in Information Systems which was held in 1996. The workshop brought together active researchers and practitioners from several communities, with systems, software ...

94 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model programs in information systems**, Volume 28 Issue 1


Full text available:  [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

95 Report from the NSF workshop on workflow and process automation in information systems

Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Wileden

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Full text available:  [pdf\(1.31 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

An interdisciplinary research community needs to address challenging issues raised by applying workflow results from the NSF workshop on Workflow and Process Automation in Information Systems which was held in 1996. The workshop brought together active researchers and practitioners from several communities, with systems ...

96 Strategic directions in concurrency research

Rance Cleaveland, Scott A. Smolka

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available:  [pdf\(323.67 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

97

Availability management of distributed programs and services

Markus Endler
November 1996

Proceedings of the 1996 conference of the Centre for Advanced Studies on Coll

Full text available:  pdf(281.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Modern distributed applications pose increasing demands for high availability, automatic management, a presents the architecture of Sampa, a *System for Availability Management of Process-based Applications* designed to support the management of fault-tolerant DCE-based distributed programs according to use

98 A framework for event-based software integration

Daniel J. Barrett, Lori A. Clarke, Peri L. Tarr, Alexander E. Wise

October 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5

Full text available:  pdf(413.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


Although event-based software integration is one of the most prevalent approaches to loose integration, uniform way to discuss event-based integration, compare approaches and implementations, specify new capabilities of event-based integration systems. We attempt to address these shortcomings by specifying

Keywords: CORBA, FIELD, Polylith, control integration, event-based systems, interoperability, reference

99 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(5.73 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

100 SafeBots: a paradigm for software security controls

Robert Filman, Ted Linden

September 1996 **Proceedings of the 1996 workshop on New security paradigms**

Full text available:  pdf(754.67 KB)

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101 [Fault-tolerance in air traffic control systems](#)

Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996

ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3

Full text available: [pdf\(264.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group. Either completed development or under development are the US Federal Aviation Administration's Displacement Authority's New Enroute Center (NERC) system, and the Republic of China's Air Traffic Control Automate present ...

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerance, software robustness, system architecture

102 [Mariposa: a wide-area distributed database system](#)

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yeh
January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Full text available: [pdf\(172.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#)

The requirements of wide-area distributed database systems differ dramatically from those of local-area systems. Individual sites usually report to different system administrators, have different access and charging algorithms, and constraints on servicing remote requests. Typical of the last point are production transaction environments.

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area networks

103 [Rover: a toolkit for mobile information access](#)

A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek

December 1995

ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating Systems Review

Full text available: [pdf\(2.18 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index](#)

104 [Ada 83/95 binding to OSF's distributed computing environment \(DCE\)](#)

Richard Kram, Ed Gallagher, Jeffrey Den Bleyker, Howard Eng

November 1995

Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions and challenges

Full text available: [pdf\(1.25 MB\)](#)

Additional Information: [full citation](#), [references](#)

105 PPFS: a high performance portable parallel file system

James V. Huber, Andrew A. Chien, Christopher L. Elford, David S. Blumenthal, Daniel A. Reed
July 1995 **Proceedings of the 9th international conference on Supercomputing**

Full text available:  [pdf\(995.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

106 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4

Full text available:  [pdf\(5.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, support systems in hospitals. Orthogonally persistent object systems are intended to provide improved s
o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, p

107 APPL/A: a language for software process programming

Stanley M. Sutton, Dennis Heimbigner, Leon J. Osterweil

July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4

Full text available:  [pdf\(4.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Software process programming is the coding of software processes in executable programming language realization has been hampered by a lack of experience in the design and use of process programming language developed to help gain this experience. It is intended for the coding of programs to represent a

Keywords: consistency management, multiparadigm programming languages, software process program

108 Chiron-1: a software architecture for user interface development, maintenance, and run-time support

Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Kenneth M. Anderson, Gregory F
June 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 2

Full text available:  [pdf\(2.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The Chiron-1 user interface system demonstrates key techniques that enable a strict separation of an application separating the control-flow aspects of the application and user interface: they are concurrent and may co and-feel issues from dialogue and abstract presentation decisions via mechanisms employing a client-server

Keywords: artists, client-server, concurrency, event-based integration, user interface architectures

109 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available:  [pdf\(4.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous research suggesting the application of object-oriented techniques to facilitate the complex task of design promising, the lack of a general framework impedes any further development. The goal of this paper is to

Keywords: distributed objects, federated databases, integration, multidatabases, views

110

A distributed and policy-free general-purpose shared window system

Thomas Gutekunst, Daniel Bauer, Germano Caronni, Bernhard Plattner, Hasan
February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1


Full text available:  [pdf\(1.74 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

111 A concurrency analysis tool suite for Ada programs: rationale, design, and preliminary experience

Michal Young, Richard N. Taylor, David L. Levine, Kari A. Nies, Debra Brodbeck

January 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4

Full text available:  [pdf\(2.93 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Cats (Concurrency Analysis Tool Suite) is designed to satisfy several criteria: it must analyze implement associated with program source code; it must be modularized in a fashion that supports flexible composi of testing and analysis techniques; and its performance and capacity must be sufficient for analysis of re

Keywords: Ada, concurrency, software development environments, static analysis, tool integration

112 Discrete element models and real life duals

Ross A. Gagliano, Michael R. Lauer

December 1994 **Proceedings of the 26th conference on Winter simulation**


Full text available:  [pdf\(752.03 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

113 Modeling NII services: future needs for standards and interoperability

Christopher Dabrowski, William Majurski, Wayne McCoy, Shukri Wakid

December 1994 **StandardView**, Volume 2 Issue 4


Full text available:  [pdf\(1.49 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

114 Making sense of software engineering environment framework standards

Barbara Cuthill

December 1994 **StandardView**, Volume 2 Issue 4


Full text available:  [pdf\(1.67 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

115 An object-oriented, distributed architecture for large-scale Ada systems

Phillipe Kruchten, Christopher J. Thompson

November 1994 **Proceedings of the conference on TRI-Ada '94**

Full text available:  [pdf\(1.14 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents an architectural model ideally suited for the description of large, distributed commar dimensions (or views) of software architecture and is used to describe the software architecture of a far development by Hughes Aircraft of Canada. Some of the features of this family of systems are described

116 Transparent fault tolerance for distributed Ada applications

Mark A. Breland, Steven A. Rogers, Guillaume P. Brat, Kenneth L. Nelson

November 1994 **Proceedings of the conference on TRI-Ada '94**


Full text available:  [pdf\(1.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The advent of open architectures and initiatives in massively parallel supercomputing, combined with the enabled the implementation of responsive software-based fault tolerance. Expanding capabilities of distr of hardware fault tolerance into critical, realtime embedded systems. Through the integration of proven .

117 Experience with the virtual notebook system: abstraction in hypertext

Jerry Fowler, Donald G. Baker, Ross Dargahi, Vram Kouramajian, Hillary Gilson, Kevin Brook Long, Cynthia
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative v**

Full text available:  pdf(1.49 MB)


Additional Information: [full citation](#), [abstract](#), [references](#)

The Virtual Notebook System (VNS) is a distributed collaborative hypertext system that has made a succ
Experience in developing and deploying the VNS in diverse settings including biomedical research, under
developed insight into the use of systems for computer-supported cooperative work (CSCW). This paper

Keywords: CSCW, Dexter model, VNS, VOM, collaboration, consortium, hypertext, memento, metaphor

118 A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available:  pdf(3.81 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts
computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaw:
widely separated places. For those new to the field of computer security, they provide a good introductic

Keywords: error/defect classification, security flaw, taxonomy

119 Research issues in ubiquitous computing


Alan J. Demers
August 1994 **Proceedings of the thirteenth annual ACM symposium on Principles of distributed coi**

Full text available:  pdf(721.57 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

120 Enterprise information architectures—they're finally changing

Wesley P. Melling
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international con**

Full text available:  pdf(1.28 MB)




Additional Information: [full citation](#), [abstract](#), [references](#)

Substantive changes in the business environment—and aggressive initiatives in business process reengin
technology architectures of large enterprises. Those changes are enabled by the convergence of a long li
the new IT architecture demands revised assumptions about the design and deployment of databases. T

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